Ehsan Al-Agtash

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EDUCATION

Bachelor Of Science in Mechanical Engineering

San Jose State University, San Jose, CA, GPA 3.1

SKILLS

Software: Solidworks, MATLAB, Circuit Python, Fusion 360, Visual Studio Code, Microsoft Office Suite, LabVIEW

Programming Languages: C++, Python, Java

Test Equipment: Hydraulic and pneumatic pressure and flow, high/low-frequency AC, DC, resistance, force, torque

EXPERIENCE

Spartan Racing Combustion/electric Team Formula SAE, SJSU— Team member

Aug 2020 - Present

Expected Graduation: Dec 2022

- Research of exhaust system design for optimum flow and sounds control
- Complete assembling and disassembling of various powertrain systems
- Increase efficiency within the team and help with the manufacture of different brackets
- Interacted between sub-teams and constantly working in a team environment

PROJECT EXPERIENCE

Drag Reduction System (DRS), SJSU — Team member

Jan 2021 - Present

- Constructed a few different types of actuators (electric, hydraulic, pneumatic) to operate the DRS system while following rules, goals, and weight restrictions
- Evaluated different actuation methods and picked the best actuator to open and close the DRS system
- Brainstormed the effectiveness of the DRS and how it will help with reducing lap time
- Analyze the timing of the DRS open or closed in previous competitions using I2pro

Automatic Window Opener, SJSU — Team lead

Jan 2021 - May 2021

- Attained a stepper motor for the application based on velocity, current, torque, and voltage
- Established communications between sensors and motors using python on a microcontroller (nRF)
- Optimized the parameters with a state diagram for the Adafruit sensors to ease the design and the structure of the program
- Analyzed software structure for sensors and motors with Circuit Python and practiced good programming

ACTIVITIES

Information Technology Service Desk, Santa Clara Valley Medical Center, Santa Clara May 2018 - Dec 2018

- Ensured every patient/visitor was given proper direction to their destination, whether it was a doctor visit or visiting a loved one
- Networked with colleagues to ensure mail was delivered daily and helped patients get some form of transportation after a visit